

## Abstract

A fuel injector (1) for the direct injection of fuel into the combustion chamber of an internal combustion engine includes a  
5 valve needle (4), which is situated in a nozzle body (3), is  
actuatable by an actuator (7) and acted upon by a restoring  
spring (9) in such a manner that a valve closure member (5),  
which is in operative connection to the valve needle (4) and  
faces the combustion chamber, is kept in sealing contact on a  
10 valve seat surface (6) in the non-actuated state of the  
actuator (7). A surface of the fuel injector (1) has a  
concave design in a transition region (13) between the nozzle  
body (3) and the valve-closure member (5).

15 (Fig. 3)